Title of the work

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Abstract

Write your abstract here. The abstract should concisely describe the scientific motivation, methods, main results, and relevance to quantum sensing and related physics topics. (keep it max. 150 words)

Introduction and Background

The total length of the document, including figures and references, must fit on **two pages**.

You may include equations using the standard LaTeX environment:

$$\mathrm{P}_{g/h} = \frac{1}{2}[1 \pm T\cos\gamma], \tag{1}$$

or inline such as $\omega_p = \omega_s + \omega_i$.

You can include a figure using the `figure` environment and reference it with `\ref`, see Fig. 1. To cite a paper, add it to `references.bib` and use `\cite`. Example citations: [1, 2].

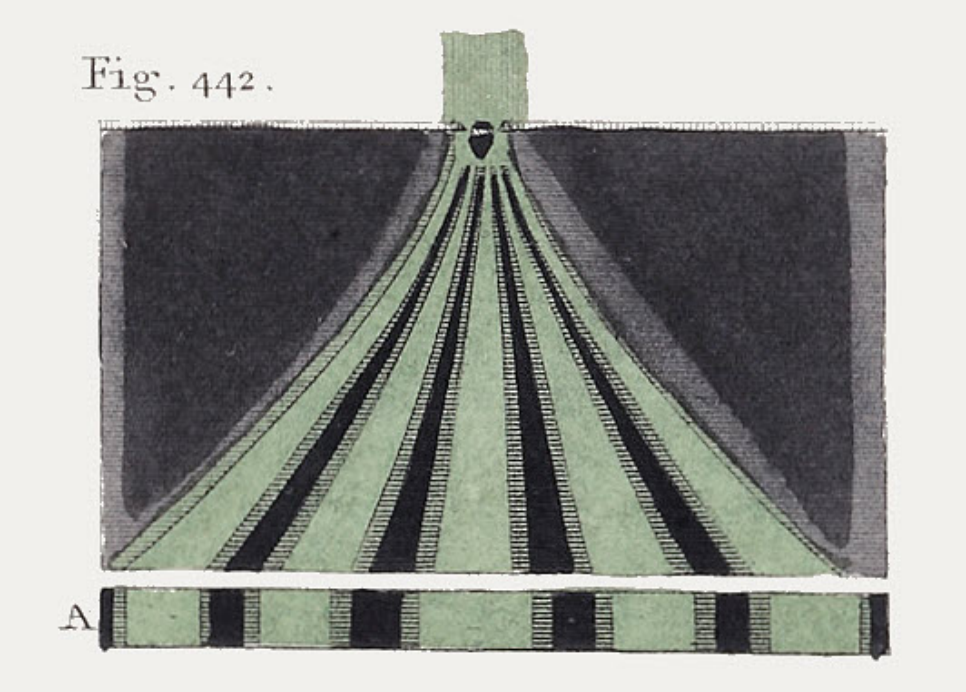

Figure 1: Example figure caption. Figures should be clear and readable.

The provided section names are suggestions only. Authors are free to rename, add (using `\section*{}` command), or remove sections as appropriate.

Methods / Experiment

Briefly describe the experimental setup, sensing protocol, or theoretical framework.

Results and Discussion

Summarize the key results and their significance.

References

[1] Gabriela Barreto Lemos, Victoria Borish, Garrett D. Cole, Sven Ramelow, Radek Lapkiewicz, and Anton Zeilinger. Quantum imaging with undetected photons. *Nature*, 512(7515):409–412, August 2014. ISSN 0028-0836, 1476-4687. doi: 10.1038/nature13586. URL `https://www.nature.com/articles/nature13586`.

[2] Albert Einstein, Boris Podolsky, and Nathan Rosen. Can quantum-mechanical description of physical reality be considered complete? *Phys. Rev.*, 47:777–780, May 1935. doi: 10.1103/PhysRev.47.777. URL `https://link.aps.org/doi/10.1103/PhysRev.47.777`.